

Amendment to the Claims

1. (Currently Amended) A reactor for
electrochemicallyelectromechanically processing a microelectronic workpiece |
comprising:

a movable electrode assembly disposed for movement along a motion path, the motion path including at least a portion thereof over which the electrode assembly is positioned for processing a microelectronic workpiece;
a cleaning electrode located along the motion path of a movable electrode assembly.

2. (Original) The reactor of claim 1 and further comprising a programmable controller connected to control the movable electrode assembly into the cleaning electrode during a cleaning cycle.

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3. (Original) The reactor of claim 2 wherein the programmable controller connects the movable electrode assembly as an anode and the cleaning electrode as a cathode during the cleaning cycle.

4. (Original) The reactor of claim 2 wherein the cleaning electrode is disposed along a position of the motion path that is beyond the range of motion required to process a microelectronic workpiece.

5. (Original) The reactor of claim 4 wherein the programmable controller is programmed to conduct a cleaning cycle while a microelectronic workpiece is disposed in the reactor for processing.

6. (Original) The reactor of claim 4 wherein the programmable controller is programmed to execute a cleaning cycle during a workpiece processing cycle in which a microelectronic workpiece is under process.

7. (Original) The reactor of claim 1 wherein the cleaning electrode comprises platinized titanium.

8. (Original) The reactor of claim 1 wherein the movable electrode assembly comprises one or more sets of fluid delivery ports that deliver a fluid to the surface of the microelectronic workpiece.

9. (Original) The reactor of claim 8 wherein said fluid is a rinse solution.

10. (Original) The reactor of claim 8 wherein said fluid is an electrolyte

*All
Cancelled*
11. (Original) The reactor of claim 8 wherein said movable electrode assembly further includes one or more sets of fluid recovery ports.

12. (Original) The reactor of claim 1 wherein said movable electrode assembly further includes one or more sets of fluid delivery ports, and one or more sets of fluid recovery ports.

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

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20. (Cancelled)

Cont'd
21. (Cancelled)

22. (Cancelled)

24. (Cancelled)